

(FILE 'HOME' ENTERED AT 18:52:24 ON 21 MAR 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 18:52:45 ON 21 MAR 2002

L1	245589 S SALMONELLA
L2	1054194 S MUTANTS OR MUTATIONS OR DELETIONS
L3	474 S SALMONELLA VACCINES
L4	30393 S FLAGELLA OR FLAGELLIN
L5	18262 S SALMONELLA TYPHI
L6	3872 S SALMONELLA PARATYPHI
L7	24886 S L1 AND L2
L8	97 S L7 AND L3
L9	4039 S L2 AND L4
L10	6 S L8 AND L9

=>

> s Salmonella and mutat?
L1 28648 SALMONELLA AND MUTAT?

=> s l1 and flage?
L2 1097 L1 AND FLAGE?

=> s l2 and vaccine?
L3 110 L2 AND VACCINE?

=> d l3 ibib 1-110

L3 ANSWER 1 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1997:105754 BIOSIS
DOCUMENT NUMBER: PREV199799404957
TITLE: Role of SefA subunit protein of SEF14 fimbriae in the
pathogenesis of *Salmonella enterica* serovar
enteritidis.
AUTHOR(S): Ogunniyi, Abiodun D.; Kotlarski, Ieva; Morona, Renato;
Manning, Paul A. (1)
CORPORATE SOURCE: (1) Microbial Pathogenesis Unit, Dep. Microbiol. Immunol.,
Univ. Adelaide, Adelaide, SA 5005 Australia
SOURCE: Infection and Immunity, (1997) Vol. 65, No. 2, pp. 708-717.
ISSN: 0019-9567.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 2 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1994:226104 BIOSIS
DOCUMENT NUMBER: PREV199497239104
TITLE: Hypervariable region IV of *Salmonella* gene fliC-d
encodes a dominant surface epitope and a stabilizing factor
for functional **flagella**.
AUTHOR(S): He, Xiao-Song; Rivkina, Marianne; Stocker, Bruce A. D.;
Robinson, William S. (1)
CORPORATE SOURCE: (1) Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305
USA
SOURCE: Journal of Bacteriology, (1994) Vol. 176, No. 8, pp.
2406-2414.
ISSN: 0021-9193.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 3 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1994:77947 BIOSIS
DOCUMENT NUMBER: PREV199497090947
TITLE: Genetically stable temperature-sensitive mutants of
Salmonella typhi induce protection in mice.
AUTHOR(S): Hooke, Anne Morris (1); Cerquetti, M. Cristina; Zeligs,
Barbara J.; Wang, Zhen; Hoberg, Kathryn; Bellanti, Joseph
A.
CORPORATE SOURCE: (1) Dep. Microbiol., Miami Univ., Oxford, OH 45056 USA
SOURCE: Vaccine, (1993) Vol. 11, No. 14, pp. 1386-1389.
ISSN: 0264-410X.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 4 OF 110 CABA COPYRIGHT 2001 CABI
ACCESSION NUMBER: 1998:158477 CABA
DOCUMENT NUMBER: 982214803
TITLE: Establishment of a high-level expression system for
the *Salmonella* gene fliCi
AUTHOR: Jiao XinAn; Zhang GuoQiang; Wen QiYi; Gao Song;
Zhang RuKuan; Liu XiuFan; Jiao, X. A.; Zhang, G. Q.;
Wen, Q. Y.; Gao, S.; Zhang, R. K.; Liu, X. F.

CORPORATE SOURCE: Faculty of Veterinary Medicine, Agricultural College of Yangzhou University, Yangzhou, Jiangsu 225009, China.

SOURCE: Chinese Journal of Veterinary Science, (1998) Vol. 18, No. 3, pp. 241-243. 9 ref.

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

SUMMARY LANGUAGE: English

L3 ANSWER 5 OF 110 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:548895 CAPLUS

DOCUMENT NUMBER: 129:240533

TITLE: Establishment of the high-level expression system for **Salmonella** gene *fliCi*

AUTHOR(S): Jiao, Xin'an; Zhang, Guoqiang; Wen, Qiyi; Gao, Song; Zhang, Rukuan; Liu, Xiufan

CORPORATE SOURCE: Fac. Vet. Med., Agri. Coll. Yangzhou Univ., Yangzhou, 225009, Peop. Rep. China

SOURCE: Zhongguo Shouyi Xuebao (1998), 18(3), 241-243

CODEN: ZSXUF5; ISSN: 1005-4545

PUBLISHER: Zhongguo Shouyi Xuebao Bianjibu

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

L3 ANSWER 6 OF 110 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:98002 CAPLUS

DOCUMENT NUMBER: 126:183570

TITLE: Role of SefA subunit protein of SEF14 fimbriae in the pathogenesis of **Salmonella** enterica serovar enteritidis

AUTHOR(S): Ogunniyi, Abiodun D.; Kotlarski, Ieva; Morona, Renato; Manning, Paul A.

CORPORATE SOURCE: Microbiol. Pathogenesis Unit, Dep. Microbiol. Immunol., Univ. Adelaide, Adelaide, 5005, Australia

SOURCE: Infect. Immun. (1997), 65(2), 708-717

CODEN: INFIBR; ISSN: 0019-9567

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

L3 ANSWER 7 OF 110 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:406798 CAPLUS

DOCUMENT NUMBER: 121:6798

TITLE: Hypervariable region IV of **Salmonella** gene *fliCd* encodes a dominant surface epitope and a stabilizing factor for functional **flagella**

AUTHOR(S): He, Xiao Song; Rivkina, Marianne; Stockler, Bruce A. D.; Robinson, William S.

CORPORATE SOURCE: Sch. Med., Stanford Univ., Stanford, CA, 94305, USA

SOURCE: J. Bacteriol. (1994), 176(8), 2406-14

CODEN: JOBAAY; ISSN: 0021-9193

DOCUMENT TYPE: Journal

LANGUAGE: English

L3 ANSWER 8 OF 110 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1993:252767 CAPLUS

DOCUMENT NUMBER: 118:252767

TITLE: Live attenuated **salmonellae**: Oral **vaccines** for salmonellosis and combined **vaccines** carrying heterologous antigens

AUTHOR(S): Hormaeche, Carlos E.; Dougan, Gordon; Chatfield, Steve N.

CORPORATE SOURCE: Div. Microbiol. Parasitol., Dep. Pathol., Cambridge, CB2 1QP, UK

SOURCE: FEMS Symp. (1992), 63(Release of Genetically Modified
Microorganisms--REGEM 2), 71-83
DOCUMENT TYPE: CODEN: FEMSDW; ISSN: 0163-9188
LANGUAGE: Journal; General Review
English

L3 ANSWER 9 OF 110 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1992:241920 CAPLUS
DOCUMENT NUMBER: 116:241920
TITLE: Acid-tolerant *Salmonella* typhi, double aro
mutants thereof, and use as an oral vaccine
for typhoid fever
INVENTOR(S): Hone, David M.; Levine, Myron M.
PATENT ASSIGNEE(S): University of Maryland, Baltimore, USA
SOURCE: PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9118092	A1	19911128	WO 1991-US3447	19910522
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
PRIORITY APPLN. INFO.:			US 1990-527467	19900523

L3 ANSWER 10 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 97036545 EMBASE
DOCUMENT NUMBER: 1997036545
TITLE: Role of SefA subunit protein of SEF14 fimbriae in the
pathogenesis of *Salmonella* enterica serovar
enteritidis.
AUTHOR: Ogunniyi A.D.; Kotlarski I.; Morona R.; Manning P.A.
CORPORATE SOURCE: P.A. Manning, Microbial Pathogenesis Unit, Dept. of
Microbiology and Immunology, University of Adelaide,
Adelaide, SA 5005, Australia
SOURCE: Infection and Immunity, (1997) 65/2 (708-717).
Refs: 67
ISSN: 0019-9567 CODEN: INFIBR
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
005 General Pathology and Pathological Anatomy
048 Gastroenterology
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 11 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 94124106 EMBASE
DOCUMENT NUMBER: 1994124106
TITLE: Hypervariable region IV of *Salmonella* gene
fliC(d) encodes a dominant surface epitope and a
stabilizing factor for functional flagella.
AUTHOR: He X.-S.; Rivkina M.; Stocker B.A.D.; Robinson W.S.
CORPORATE SOURCE: Department of Medicine, Stanford Univ. School of
Medicine, Stanford, CA 94305, United States
SOURCE: Journal of Bacteriology, (1994) 176/8 (2406-2414).
ISSN: 0021-9193 CODEN: JOBAAY
COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
LANGUAGE: English

SUMMARY LANGUAGE: English

L3 ANSWER 12 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 93357656 EMBASE
DOCUMENT NUMBER: 1993357656
TITLE: Genetically stable temperature-sensitive mutants of
Salmonella typhi induce protection in mice.
AUTHOR: Morris Hooke A.; Cerquetti M.C.; Zeligs B.J.; Wang Z.;
Hoberg K.; Bellanti J.A.
CORPORATE SOURCE: Department of Microbiology, Miami University, Oxford, OH
40506, United States
SOURCE: Vaccine, (1993) 11/14 (1386-1389).
ISSN: 0264-410X CODEN: VACCDE
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
017 Public Health, Social Medicine and Epidemiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 13 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 91278636 EMBASE
DOCUMENT NUMBER: 1991278636
TITLE: Live attenuated **salmonella vaccines** and
their potential as oral combined **vaccines**
carrying heterologous antigens.
AUTHOR: Hormaeche C.E.
CORPORATE SOURCE: Div. Microbiology/Parasitology, Department of Pathology,
Tennis Court Road, Cambridge CB2 1LP, United Kingdom
SOURCE: Journal of Immunological Methods, (1991) 142/1 (113-120).
ISSN: 0022-1759 CODEN: JIMMBG
COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 14 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 91027409 EMBASE
DOCUMENT NUMBER: 1991027409
TITLE: Aromatic-dependent **Salmonella** as live
vaccine presenters of foreign epitopes as inserts
in **flagellin**.
AUTHOR: Stocker B.A.D.
CORPORATE SOURCE: Department of Microbiology and Immunology, Stanford
University School of Medicine, Stanford, CA 94305-5402,
United States
SOURCE: Research in Microbiology, (1990) 141/7-8 (787-796).
ISSN: 0923-2508 CODEN: RMCREW
COUNTRY: France
DOCUMENT TYPE: Journal; Conference Article
FILE SEGMENT: 004 Microbiology
026 Immunology, Serology and Transplantation
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 15 OF 110 LIFESCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 97:47013 LIFESCI
TITLE: Role of SefA subunit protein of SEF14 fimbriae in the
pathogenesis of **Salmonella enterica** serovar

enteritidis
AUTHOR: Oggunniyi, A.D.; Kotlarski, I.; Morona, R.; Manning, P.A.*
CORPORATE SOURCE: Microbial Pathogenesis Unit, Dep. Microbiol. and Immun.,
Univ. Adelaide, Adelaide, S.A. 5005, Australia
SOURCE: INFECT. IMMUN., (1997) vol. 65, no. 2, pp. 708-717.
ISSN: 0019-9567.
DOCUMENT TYPE: Journal
FILE SEGMENT: J
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 16 OF 110 LIFESCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 97:46960 LIFESCI
TITLE: Safety of live oral **Salmonella typhi**
vaccine strains with deletions in *htrA* and *aroC*
aroD and immune response in humans
AUTHOR: Tacket, C.O.; Sztein, M.B.; Losonsky, G.A.; Wasserman,
S.S.; Nataro, J.P.; Edelman, R.; Pickard, D.; Dougan, G.;
Chatfield, S.N.; Levine, M.M.
CORPORATE SOURCE: Cent. for Vaccine Dev., 685 West Baltimore St., Baltimore,
MD, USA
SOURCE: INFECT. IMMUN., (1997) vol. 65, no. 2, pp. 452-456.
ISSN: 0019-9567.
DOCUMENT TYPE: Journal
FILE SEGMENT: J; W3
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 17 OF 110 LIFESCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 94:95291 LIFESCI
TITLE: Genetically stable temperature-sensitive mutants of
Salmonella typhi induce protection in mice
AUTHOR: Hooke, A.M.; Cerquetti, M.C.; Zeligs, B.J.; Wang, Zhen;
Hoberg, K.; Bellanti, J.A.
CORPORATE SOURCE: Dep. Microbiol., Miami Univ., Oxford, OH 45056, USA
SOURCE: VACCINE, (1993) vol. 11, no. 14, pp. 1386-1389.
ISSN: 0264-410X.
DOCUMENT TYPE: Journal
FILE SEGMENT: J; F; W3
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 18 OF 110 LIFESCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 94:75569 LIFESCI
TITLE: Hypervariable region IV of **salmonella** gene *fliC*
super(d) encodes a dominant surface epitope and a
stabilizing factor for functional **flagella**
AUTHOR: He, X.-S.; Rivkina, M.; Stocker, B.A.D.; Robinson, W.S.*
CORPORATE SOURCE: Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305,
USA
SOURCE: J. BACTERIOL., (1994) vol. 176, no. 8, pp. 2406-2414.
ISSN: 0021-9193.
DOCUMENT TYPE: Journal
FILE SEGMENT: J
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 19 OF 110 LIFESCI COPYRIGHT 2001 CSA
ACCESSION NUMBER: 94:28626 LIFESCI
TITLE: Live attenuated **Salmonella vaccines** and
their potential as oral combined **vaccines**
carrying heterologous antigens
AUTHOR: Hormaeche, C.E.
CORPORATE SOURCE: Div. Microbiol. and Parasitol., Dep. Pathol., Tennis Court

SOURCE: Rd., Cambridge CB2 1LP, UK
J. IMMUNOL. METHODS, (1991) vol. 142, no. 1, pp. 113-120.
ISSN: 0022-1759.
DOCUMENT TYPE: Journal
FILE SEGMENT: F; J
LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 20 OF 110 MEDLINE

ACCESSION NUMBER: 1999307226 MEDLINE
DOCUMENT NUMBER: 99307226 PubMed ID: 10377147
TITLE: **Salmonella typhi flagella** are potent
inducers of proinflammatory cytokine secretion by human
monocytes.
AUTHOR: Wyant T L; Tanner M K; Sztein M B
CORPORATE SOURCE: Center for Vaccine Development, Departments of Pediatrics
and Medicine, University of Maryland, Baltimore, Maryland
21201, USA.
CONTRACT NUMBER: RO1 AI36525 (NIAID)
SOURCE: INFECTION AND IMMUNITY, (1999 Jul) 67 (7) 3619-24.
Journal code: GO7; 0246127. ISSN: 0019-9567.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199907
ENTRY DATE: Entered STN: 19990730
Last Updated on STN: 19990730
Entered Medline: 19990722

L3 ANSWER 21 OF 110 MEDLINE

ACCESSION NUMBER: 97162347 MEDLINE
DOCUMENT NUMBER: 97162347 PubMed ID: 9009334
TITLE: Role of SefA subunit protein of SEF14 fimbriae in the
pathogenesis of **Salmonella enterica** serovar
Enteritidis.
AUTHOR: Ogunniyi A D; Kotlarski I; Morona R; Manning P A
CORPORATE SOURCE: Department of Microbiology and Immunology, The University
of Adelaide, South Australia.
SOURCE: INFECTION AND IMMUNITY, (1997 Feb) 65 (2) 708-17.
Journal code: GO7; 0246127. ISSN: 0019-9567.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
OTHER SOURCE: GENBANK-X98516
ENTRY MONTH: 199702
ENTRY DATE: Entered STN: 19970306
Last Updated on STN: 19970306
Entered Medline: 19970221

L3 ANSWER 22 OF 110 MEDLINE

ACCESSION NUMBER: 94209244 MEDLINE
DOCUMENT NUMBER: 94209244 PubMed ID: 7512552
TITLE: Hypervariable region IV of **Salmonella** gene fliC_d
encodes a dominant surface epitope and a stabilizing factor
for functional **flagella**.
AUTHOR: He X S; Rivkina M; Stocker B A; Robinson W S
CORPORATE SOURCE: Department of Medicine, Stanford University School of
Medicine, California 94305.
CONTRACT NUMBER: AI-13526 (NIAID)
DK-38707 (NIDDK)
SOURCE: JOURNAL OF BACTERIOLOGY, (1994 Apr) 176 (8) 2406-14.
Journal code: HH3; 2985120R. ISSN: 0021-9193.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199405
ENTRY DATE: Entered STN: 19940526
Last Updated on STN: 19960129
Entered Medline: 19940513

L3 ANSWER 23 OF 110 MEDLINE

ACCESSION NUMBER: 94144247 MEDLINE
DOCUMENT NUMBER: 94144247 PubMed ID: 8310758
TITLE: Genetically stable temperature-sensitive mutants of
Salmonella typhi induce protection in mice.
AUTHOR: Hooke A M; Cerquetti M C; Zeligs B J; Wang Z; Hoberg K;
Bellanti J A
CORPORATE SOURCE: International Center for Interdisciplinary Studies of
Immunology, Georgetown University School of Medicine,
Washington, DC 20007.
SOURCE: VACCINE, (1993 Nov) 11 (14) 1386-9.
Journal code: X60; 8406899. ISSN: 0264-410X.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199403
ENTRY DATE: Entered STN: 19940330
Last Updated on STN: 19940330
Entered Medline: 19940311

L3 ANSWER 24 OF 110 MEDLINE

ACCESSION NUMBER: 92013164 MEDLINE
DOCUMENT NUMBER: 92013164 PubMed ID: 1919015
TITLE: Live attenuated **Salmonella** vaccines and
their potential as oral combined vaccines
carrying heterologous antigens.
AUTHOR: Hormaeche C E
CORPORATE SOURCE: Department of Pathology, Cambridge, U.K.
SOURCE: JOURNAL OF IMMUNOLOGICAL METHODS, (1991 Aug 28) 142 (1)
113-20. Ref: 92
Journal code: IFE; 1305440. ISSN: 0022-1759.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199111
ENTRY DATE: Entered STN: 19920124
Last Updated on STN: 19920124
Entered Medline: 19911112

L3 ANSWER 25 OF 110 MEDLINE

ACCESSION NUMBER: 91326956 MEDLINE
DOCUMENT NUMBER: 91326956 PubMed ID: 1714093
TITLE: Aromatic-dependent **Salmonella** as live
vaccine presenters of foreign epitopes as inserts
in **flagellin**.
AUTHOR: Stocker B A
CORPORATE SOURCE: Department of Microbiology and Immunology, Stanford
University School of Medicine, CA 94305-5402.
CONTRACT NUMBER: AI-18872 (NIAID)
AI-27722 (NIAID)
SOURCE: RESEARCH IN MICROBIOLOGY, (1990 Sep-Oct) 141 (7-8) 787-96.

PUB. COUNTRY: Journal code: R6F; 8907468. ISSN: 0923-2508.
France
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199109
ENTRY DATE: Entered STN: 19910929
Last Updated on STN: 19960129
Entered Medline: 19910909

L3 ANSWER 26 OF 110 MEDLINE

ACCESSION NUMBER: 76274022 MEDLINE
DOCUMENT NUMBER: 76274022 PubMed ID: 60853
TITLE: [Live enteric typhoid **vaccine** consisting of a
Vi-negative double-dependent mutant of S. typhi and a
Vi-positive strain of Citrobacter].
Eksperimental'nye issledovaniia zhivoi enteral'noi vaksiny
protiv briushnogo tifa, sostoiashchei iz Vi-negativnogo
dvuzavisimogo mutanta S. typhi i Vi-pozitivnogo shtamma
Citrobacter.
AUTHOR: Pershin B B; Shuster B Iu; Maganet L S; Tolcheev Iu D
SOURCE: ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII,
(1976 Jan) (1) 35-40.
Journal code: Y90; 0415217. ISSN: 0372-9311.
PUB. COUNTRY: USSR
LANGUAGE: Journal; Article; (JOURNAL ARTICLE)
Russian
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197611
ENTRY DATE: Entered STN: 19900313
Last Updated on STN: 19970203
Entered Medline: 19761101

L3 ANSWER 27 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 2001:325290 SCISEARCH
THE GENUINE ARTICLE: 422EF
TITLE: Antibody response against Escherichia coli heat-stable
enterotoxin expressed as fusions to **flagellin**
AUTHOR: Pereira C M (Reprint); Guth B E C; Sbrogio-Almeida M E;
Castilho B A
CORPORATE SOURCE: Univ Fed Sao Paulo, Escola Paulista Med, Dept Microbiol
Imunol & Parasitol, Rua Botucatu 862, BR-04023062 Sao
Paulo, Brazil (Reprint); Univ Fed Sao Paulo, Escola
Paulista Med, Dept Microbiol Imunol & Parasitol,
BR-04023062 Sao Paulo, Brazil; Inst Butantan, Div
Desenvolvimento Tecnol & Prod, BR-05503900 Sao Paulo,
Brazil
COUNTRY OF AUTHOR: Brazil
SOURCE: MICROBIOLOGY-UK, (APR 2001) Vol. 147, Part 4, pp. 861-867.
Publisher: SOC GENERAL MICROBIOLOGY, MARLBOROUGH HOUSE,
BASINGSTOKE RD, SPENCERS WOODS, READING RG7 1AE, BERKS,
ENGLAND.
ISSN: 1350-0872.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 38
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 28 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 1998:417067 SCISEARCH
THE GENUINE ARTICLE: ZP880
TITLE: Distinct roles of an alternative sigma factor during both
free-swimming and colonizing phases of the Vibrio cholerae
pathogenic cycle

AUTHOR: Klose K E; Mekalanos J J (Reprint)
CORPORATE SOURCE: HARVARD UNIV, SCH MED, DEPT MICROBIOL & MOL GENET, 200 LONGWOOD AVE, BOSTON, MA 02115 (Reprint); HARVARD UNIV, SCH MED, DEPT MICROBIOL & MOL GENET, BOSTON, MA 02115; HARVARD UNIV, SCH MED, SHIPLEY INST MED, BOSTON, MA 02115
COUNTRY OF AUTHOR: USA
SOURCE: MOLECULAR MICROBIOLOGY, (MAY 1998) Vol. 28, No. 3, pp. 501-520.
Publisher: BLACKWELL SCIENCE LTD, P O BOX 88, OSNEY MEAD, OXFORD OX2 ONE, OXON, ENGLAND.
ISSN: 0950-382X.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 73
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 29 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)
ACCESSION NUMBER: 97:114525 SCISEARCH
THE GENUINE ARTICLE: WE900
TITLE: Role of SefA subunit protein of SEF14 fimbriae in the pathogenesis of *Salmonella enterica* serovar enteritidis
AUTHOR: Ogunniyi A D; Kotlarski I; Morona R; Manning P A (Reprint)
CORPORATE SOURCE: UNIV ADELAIDE, DEPT MICROBIOL & IMMUNOL, MICROBIAL PATHOGENESIS UNIT, ADELAIDE, SA 5005, AUSTRALIA (Reprint); UNIV ADELAIDE, DEPT MICROBIOL & IMMUNOL, MICROBIAL PATHOGENESIS UNIT, ADELAIDE, SA 5005, AUSTRALIA
COUNTRY OF AUTHOR: AUSTRALIA
SOURCE: INFECTION AND IMMUNITY, (FEB 1997) Vol. 65, No. 2, pp. 708-717.
Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171.
ISSN: 0019-9567.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 67
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 30 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)
ACCESSION NUMBER: 94:253849 SCISEARCH
THE GENUINE ARTICLE: NG717
TITLE: HYPERVARIABLE REGION-IV OF *SALMONELLA* GENE FLIC(D) ENCODES A DOMINANT SURFACE EPITOPE AND A STABILIZING FACTOR FOR FUNCTIONAL *FLAGELLA*
AUTHOR: HE X S; RIVKINA M; STOCKER B A D; ROBINSON W S (Reprint)
CORPORATE SOURCE: STANFORD UNIV, SCH MED, DEPT MED, STANFORD, CA, 94305 (Reprint); STANFORD UNIV, SCH MED, DEPT MED, STANFORD, CA, 94305; STANFORD UNIV, SCH MED, DEPT MICROBIOL & IMMUNOL, STANFORD, CA, 94305
COUNTRY OF AUTHOR: USA
SOURCE: JOURNAL OF BACTERIOLOGY, (APR 1994) Vol. 176, No. 8, pp. 2406-2414.
ISSN: 0021-9193.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 38
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 31 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)
ACCESSION NUMBER: 93:702670 SCISEARCH
THE GENUINE ARTICLE: MH268

TITLE: GENETICALLY STABLE TEMPERATURE-SENSITIVE MUTANTS OF
SALMONELLA-TYPHI INDUCE PROTECTION IN MICE
 AUTHOR: HOOKE A M (Reprint); CERQUETTI M C; ZELIGS B J; WANG Z;
 HOBERG K; BELLANTI J A
 CORPORATE SOURCE: GEORGETOWN UNIV, SCH MED, DEPT PEDIAT, WASHINGTON, DC,
 20007; GEORGETOWN UNIV, SCH MED, DEPT MICROBIOL,
 WASHINGTON, DC, 20007
 COUNTRY OF AUTHOR: USA
 SOURCE: VACCINE, (NOV 1993) Vol. 11, No. 14, pp. 1386-1389.
 ISSN: 0264-410X.
 DOCUMENT TYPE: Article; Journal
 FILE SEGMENT: LIFE; AGRI
 LANGUAGE: ENGLISH
 REFERENCE COUNT: 26
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 32 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)
 ACCESSION NUMBER: 91:502382 SCISEARCH
 THE GENUINE ARTICLE: GD761
 TITLE: LIVE ATTENUATED **SALMONELLA VACCINES**
 AND THEIR POTENTIAL AS ORAL COMBINED **VACCINES**
 CARRYING HETEROLOGOUS ANTIGENS
 AUTHOR: HORMAECHE C E (Reprint)
 CORPORATE SOURCE: DEPT PATHOL, DIV MICROBIOL & PARASITOL, TENNIS COURT RD,
 CAMBRIDGE CB2 1LP, ENGLAND (Reprint)
 COUNTRY OF AUTHOR: ENGLAND
 SOURCE: JOURNAL OF IMMUNOLOGICAL METHODS, (1991) Vol. 142, No. 1,
 pp. 113-120.
 DOCUMENT TYPE: Article; Journal
 FILE SEGMENT: LIFE
 LANGUAGE: ENGLISH
 REFERENCE COUNT: 92
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 33 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)
 ACCESSION NUMBER: 91:375345 SCISEARCH
 THE GENUINE ARTICLE: FU443
 TITLE: A **FLAGELLA**-LESS MUTANT OF BORRELIA-BURGDORFERI -
 STRUCTURAL, MOLECULAR, AND INVITRO FUNCTIONAL-
 CHARACTERIZATION
 AUTHOR: SADZIENE A; THOMAS D D; BUNDOC V G; HOLT S C; BARBOUR A G
 (Reprint)
 CORPORATE SOURCE: UNIV TEXAS, HLTH SCI CTR, DEPT MED, DIV INFECT DIS, SAN
 ANTONIO, TX, 78284; UNIV TEXAS, HLTH SCI CTR, DEPT
 MICROBIOL, SAN ANTONIO, TX, 78284; VILNIUS EXPTL & CLIN
 MED RES INST, VILNIUS 23200, USSR; WAKE FOREST UNIV,
 BOWMAN GRAY SCH MED, DEPT MICROBIOL & IMMUNOL, WINSTON
 SALEM, NC, 27103; UNIV TEXAS, HLTH SCI CTR, DEPT
 PERIODONT, SAN ANTONIO, TX, 78284
 COUNTRY OF AUTHOR: USA; USSR
 SOURCE: JOURNAL OF CLINICAL INVESTIGATION, (1991) Vol. 88, No. 1,
 pp. 82-92.
 DOCUMENT TYPE: Article; Journal
 FILE SEGMENT: LIFE
 LANGUAGE: ENGLISH
 REFERENCE COUNT: 43
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 34 OF 110 USPATFULL
 ACCESSION NUMBER: 2001:97431 USPATFULL
 TITLE: Attenuated microorganism strains and their uses
 INVENTOR(S): Haefliger, Denise N., Lausanne, Switzerland
 Kraehenbuhl, Jean-Pierre, Rivaz, Switzerland
 PATENT ASSIGNEE(S): BTG International Limited, London, United Kingdom

(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6251406	B1	20010626
APPLICATION INFO.:	US 1999-413807		19991007 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-288861, filed on 9 Apr 1999 Continuation of Ser. No. WO 1997-GB2740, filed on 7 Oct 1997		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1996-21091	19961009
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Salimi, Ali R.	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 8 Drawing Page(s)	
LINE COUNT:	1009	

L3 ANSWER 35 OF 110 USPATFULL
ACCESSION NUMBER: 2001:93350 USPATFULL
TITLE: Chromosomally-encoded membrane protein of borrelia burgdorferi
INVENTOR(S): Aron, Lieselotte, Hartsdale, NY, United States
Cabello, Felipe, Hartsdale, NY, United States
Godfrey, Henry P., Scarsdale, NY, United States
Schwartz, Ira, Spring Valley, NY, United States
PATENT ASSIGNEE(S): New York Medical College, Valhalla, NY, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6248583	B1	20010619
APPLICATION INFO.:	US 1994-313412		19940927 (8)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Allen, Marianne P.		
LEGAL REPRESENTATIVE:	Nixon Peabody LLP		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1285		

L3 ANSWER 36 OF 110 USPATFULL
ACCESSION NUMBER: 2001:93284 USPATFULL
TITLE: Decorin binding protein compositions and methods of use
INVENTOR(S): Guo, Betty P., Boston, MA, United States
Hook, Magnus, Houston, TX, United States
PATENT ASSIGNEE(S): The Texas A & M University System, College Station, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6248517	B1	20010619
	WO 9634106		19961031
APPLICATION INFO.:	US 1997-945476		19971224 (8)
	WO 1996-US5886		19960424
			19971224 PCT 371 date
			19971224 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-589711, filed on 22 Jan 1996, now patented, Pat. No. US 5853987		
	Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned		

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Zitomer, Stephanie W..
LEGAL REPRESENTATIVE: Williams, Morgan and Amerson
NUMBER OF CLAIMS: 57
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Figure(s); 28 Drawing Page(s)
LINE COUNT: 4945
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 37 OF 110 USPATFULL
ACCESSION NUMBER: 2001:67794 USPATFULL
TITLE: Human respiratory syncytial virus peptides with
antifusogenic and antiviral activities
INVENTOR(S): Barney, Shawn O'Lin, Cary, NC, United States
Lambert, Dennis Michael, Cary, NC, United States
Petteway, Stephen Robert, Cary, NC, United States
PATENT ASSIGNEE(S): Trimeris, Inc., Durham, NC, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228983	B1	20010508
APPLICATION INFO.:	US 1995-485264		19950607 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-470896, filed on 6 Jun 1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No. US 1994-255208, filed on 7 Jun 1994 Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Scheiner, Laurie		
ASSISTANT EXAMINER:	Parkin, Jeffrey S.		
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP		
NUMBER OF CLAIMS:	62		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	84 Drawing Figure(s); 83 Drawing Page(s)		
LINE COUNT:	32166		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 38 OF 110 USPATFULL
ACCESSION NUMBER: 2001:67646 USPATFULL
TITLE: Decorin binding protein compositions
INVENTOR(S): Guo, Betty, Houston, TX, United States
Hook, Magnus, Houston, TX, United States
PATENT ASSIGNEE(S): The Texas A & M University System, College Station, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6228835	B1	20010508
APPLICATION INFO.:	US 1998-221938		19981228 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1996-589711, filed on 22 Jan 1996, now patented, Pat. No. US 5853987, issued on 29 Dec 1998 Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
LEGAL REPRESENTATIVE:	Williams, Morgan and Amerson		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	4504		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 39 OF 110 USPATFULL
ACCESSION NUMBER: 2001:55947 USPATFULL
TITLE: Methods and products for stimulating the immune system
using immunotherapeutic oligonucleotides and cytokines
INVENTOR(S): Krieg, Arthur M., Iowa City, IA, United States
Weiner, George, Iowa City, IA, United States
PATENT ASSIGNEE(S): University of Iowa Research Foundation, Iowa City, IA,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6218371	B1	20010417
APPLICATION INFO.:	US 1999-286098		19990402 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-80729	19980403 (60)
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Yucel, Remy	
ASSISTANT EXAMINER:	Zara, Jane	
LEGAL REPRESENTATIVE:	Wolf, Greenfield & Sacks, P.C.	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 9 Drawing Page(s)	
LINE COUNT:	2746	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 40 OF 110 USPATFULL
ACCESSION NUMBER: 2001:51579 USPATFULL
TITLE: DbpA compositions
INVENTOR(S): Guo, Betty P., Boston, MA, United States
Hook, Magnus, Houston, TX, United States
PATENT ASSIGNEE(S): Texas A & M University System, College Station, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214355	B1	20010410
	WO 9727301		19970731
APPLICATION INFO.:	US 1998-117257		19980722 (9)
	WO 1996-US17081		19961022
			19981029 PCT 371 date
			19981029 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 945476		
	Continuation-in-part of Ser. No. US 1996-589711, filed		
	on 22 Jan 1996, now patented, Pat. No. US 5853987,		
	issued on 29 Dec 1998 Continuation-in-part of Ser. No.		
	US 1995-427023, filed on 24 Apr 1995, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Zitomer, Stephanie W.		
LEGAL REPRESENTATIVE:	Williams, Morgan and Amerson		
NUMBER OF CLAIMS:	39		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	34 Drawing Figure(s); 31 Drawing Page(s)		
LINE COUNT:	5444		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 41 OF 110 USPATFULL
ACCESSION NUMBER: 2001:40233 USPATFULL
TITLE: 66 kDa antigen from Borrelia
INVENTOR(S): Bergstrom, Sven, Umea, Sweden
Barbour, Alan George, Irvine, CA, United States
PATENT ASSIGNEE(S): Symbicom Aktiebolag, Umea, Sweden (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6204018	B1	20010320
	WO 9535379		19951228
APPLICATION INFO.:	US 1997-750494		19970612 (8)
	WO 1995-US7665		19950619
			19970612 PCT 371 date
			19970612 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-262220, filed on 20 Jun 1994, now patented, Pat. No. US 6054296		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Minnifield, Nita M.		
LEGAL REPRESENTATIVE:	Frommer Lawrence & Haug LLP, Frommer, William S., Kolawski, Thomas J.		
NUMBER OF CLAIMS:	20		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	2159		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 42 OF 110 USPATFULL
 ACCESSION NUMBER: 2001:40219 USPATFULL
 TITLE: Immunodiagnostic test for enterohemorrhagic Escherichia coli infection
 INVENTOR(S): Kaper, James B., Pasadena, MD, United States
 Jarvis, Karen, Arnold, MD, United States
 PATENT ASSIGNEE(S): University of Maryland, Baltimore, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6204004	B1	20010320
APPLICATION INFO.:	US 1997-821872		19970321 (8)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Smith, Lynette R. F.		
ASSISTANT EXAMINER:	Portner, Ginny Allen		
LEGAL REPRESENTATIVE:	Smith, Chalin A., Marks, David L.		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	970		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 43 OF 110 USPATFULL
 ACCESSION NUMBER: 2001:25436 USPATFULL
 TITLE: Attenuated mutants of **salmonella** which constitutively express the Vi antigen
 INVENTOR(S): Noriega, Fernando R., Baltimore, MD, United States
 Sztein, Marcelo B., Columbia, MD, United States
 Levine, Myron M., Columbia, MD, United States
 PATENT ASSIGNEE(S): University of Maryland, Baltimore, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190669	B1	20010220
APPLICATION INFO.:	US 1998-76761		19980513 (9)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Duffy, Patricia A.		
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn Macpeak & Seas. PLLC		
NUMBER OF CLAIMS:	23		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 15 Drawing Page(s)		

LINE COUNT: 1873
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 44 OF 110 USPATFULL
ACCESSION NUMBER: 2001:25429 USPATFULL
TITLE: Materials and methods relating to the attachment and
display of substances on cell surfaces
INVENTOR(S): Steidler, Lothar, Ghent, Belgium
Remaut, Erik, Ghent, Belgium
Wells, Jeremy Mark, Cambridge, United Kingdom
PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie
(VIB) vzw, Zwijnaarde, Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190662	B1	20010220
APPLICATION INFO.:	US 1998-36609		19980306 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1996-GB2195, filed on 6 Sep 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1995-18323	19950907
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Navarro, Albert	
LEGAL REPRESENTATIVE:	Pennie & Edmonds LLP	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	964	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 45 OF 110 USPATFULL
ACCESSION NUMBER: 2001:13969 USPATFULL
TITLE: **Vaccine** delivery system
INVENTOR(S): Stein, Daniel C., Silver Spring, MD, United States
Stover, Charles K., Mercer Island, WA, United States
PATENT ASSIGNEE(S): University of Maryland, College Park, MD, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6180111	B1	20010130
APPLICATION INFO.:	US 1998-81576		19980519 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1997-936522, filed on 23 Sep 1997, now abandoned Continuation of Ser. No. US 1995-443514, filed on 18 May 1995, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Graser, Jennifer		
LEGAL REPRESENTATIVE:	Long Aldridge & Norman		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1298		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 46 OF 110 USPATFULL
ACCESSION NUMBER: 2000:164709 USPATFULL
TITLE: Plant artificial chromosome compositions and methods
INVENTOR(S): Preuss, Daphne, Chicago, IL, United States
Copenhaver, Gregory, Oak Park, IL, United States
PATENT ASSIGNEE(S): University of Chicago, Chicago, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6156953		20001205
APPLICATION INFO.:	US 1998-90051		19980603 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48451	19970603 (60)
	US 1998-73741	19980205 (60)
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Smith, Lynette R.F.	
ASSISTANT EXAMINER:	Zaghmout, Ousama M-Fail	
LEGAL REPRESENTATIVE:	Fulbright & Jaworski LLP	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 40 Drawing Page(s)	
LINE COUNT:	3342	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 47 OF 110 USPATFULL
 ACCESSION NUMBER: 2000:149944 USPATFULL
 TITLE: Peptide and protein fusions to thioredoxin, thioredoxin-like molecules, and modified thioredoxin-like molecules
 INVENTOR(S): McCoy, John, Reading, MA, United States
 DiBlasio-Smith, Elizabeth, Tyngsboro, MA, United States
 Grant, Kathleen, Salem, MA, United States
 LaVallie, Edward R., Tewksbury, MA, United States
 PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6143524		20001107
APPLICATION INFO.:	US 1997-810436		19970304 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-165301, filed on 10 Dec 1993, now patented, Pat. No. US 5646016 which is a continuation-in-part of Ser. No. US 1992-921848, filed on 28 Jul 1992, now patented, Pat. No. US 5292646, issued on 8 Mar 1994 which is a continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991, now patented, Pat. No. US 5270181, issued on 14 Dec 1993 which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Walsh, Stephen		
ASSISTANT EXAMINER:	Mertz, Prema		
LEGAL REPRESENTATIVE:	Lazar, Steven R.		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	12 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	2534		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 48 OF 110 USPATFULL
 ACCESSION NUMBER: 2000:134749 USPATFULL
 TITLE: Recombinant **flagellin vaccines**
 INVENTOR(S): Majarian, William R., Mt. Royal, NJ, United States
 Stocker, Bruce A. D., Palo Alto, CA, United States
 Newton, Salete M. C., Mountain View, CA, United States
 PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States (U.S. corporation)
 The Board of Trustees of the Leland Stanford Junior University, Stanford, CA, United States (U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6130082		20001010
APPLICATION INFO.:	US 1992-837668		19920214 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-190570, filed on 5 May 1988, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Mosher, Mary E.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	2404		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 49 OF 110 USPATFULL
ACCESSION NUMBER: 2000:105428 USPATFULL
TITLE: Oral **vaccines**
INVENTOR(S): Russell-Jones, Gregory John, Willoughby, United Kingdom
Howe, Peter, West Pennant Hills, United Kingdom
de Aizpurua, Henry James, Bexley, United Kingdom
Rand, Keith Norman, Chatswood, United Kingdom
PATENT ASSIGNEE(S): Biotechnology Australia PTY, LTD, New South Wales,
Australia (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6103243		20000815
APPLICATION INFO.:	US 1995-458814		19950602 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-327822, filed on 18 Oct 1994 which is a continuation of Ser. No. US 1993-158478, filed on 29 Nov 1993 which is a continuation of Ser. No. US 15810		

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1985-566	19850515
	AU 1985-3104	19851025
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Hutzell, Paula K.	
ASSISTANT EXAMINER:	Gucker, Stephen	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	11	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	1741	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 50 OF 110 USPATFULL
ACCESSION NUMBER: 2000:91741 USPATFULL
TITLE: 66 kDa antigen from *Borrelia*
INVENTOR(S): Bergstrom, Sven, Umea, Sweden
Barbour, Alan George, San Antonio, TX, United States
PATENT ASSIGNEE(S): Symbicom AB, Umea, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6090586		20000718
APPLICATION INFO.:	US 1995-468878		19950606 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-262220, filed on 20 Jun		

1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now abandoned

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Ryan, V.
LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas J. Frommer Lawrence & Haug LLP
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 3064
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 51 OF 110 USPATFULL

ACCESSION NUMBER: 2000:87935 USPATFULL
TITLE: Gene encoding invasion protein of campylobacter species
INVENTOR(S): Chan, Voon Loong, 93 Elm Ridge Drive, Toronto, Ontario, Canada M6B 1A6
Joe, Angela, #1122, 341 Bloor Street West, Toronto, Ontario, Canada M5S 1N8
Hong, Yuwen, 300 Regina Street North, Waterloo, Ontario, Canada N2J 4H2

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6087105		20000711
APPLICATION INFO.:	US 1998-56783		19980408 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-43414	19970408 (60)
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Housel, James C.	
ASSISTANT EXAMINER:	Portner, Ginny Allen	
LEGAL REPRESENTATIVE:	Bereskin & Parr	
NUMBER OF CLAIMS:	4	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 6 Drawing Page(s)	
LINE COUNT:	1803	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 52 OF 110 USPATFULL

ACCESSION NUMBER: 2000:77033 USPATFULL
TITLE: **Flagella-less borrelia**
INVENTOR(S): Barbour, Alan G., San Antonio, TX, United States
Bundoc, Virgilio G., Newbury Park, CA, United States
Sadziene, Adriadna, San Antonio, TX, United States
PATENT ASSIGNEE(S): The University of Texas System, Board of Regents, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6077515		20000620
APPLICATION INFO.:	US 1996-696372		19960813 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-124290, filed on 20 Sep 1993, now patented, Pat. No. US 5585102, issued on 17 Dec 1996 which is a continuation of Ser. No. US 1991-641143, filed on 11 Jan 1991, now patented, Pat. No. US 5436000, issued on 25 Jul 1995		
DOCUMENT TYPE:	Utility		

PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Ryan, V.
LEGAL REPRESENTATIVE: Arnold White & Durkee
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 1355

L3 ANSWER 53 OF 110 USPTFULL
ACCESSION NUMBER: 2000:67433 USPTFULL
TITLE: 66 kDa antigen from Borrelia
INVENTOR(S): Bergstrom, Sven, Umea, Sweden
Barbour, Alan George, San Antonio, TX, United States
PATENT ASSIGNEE(S): Symbicom AB, Ulmea, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6068842		20000530
APPLICATION INFO.:	US 1995-471733		19950606 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-262220, filed on 20 Jun 1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Housel, James C.		
ASSISTANT EXAMINER:	Ryan, V.		
LEGAL REPRESENTATIVE:	Frommer, Esq., William S., Kowalski, Esq., Thomas J. Frommer Lawrence & Haug LLP		
NUMBER OF CLAIMS:	16		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	3138		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 54 OF 110 USPTFULL
ACCESSION NUMBER: 2000:50546 USPTFULL
TITLE: 66 kDa antigen from Borrelia
INVENTOR(S): Bergstrom, Sven, Umea, Sweden
Barbour, Alan George, San Antonio, TX, United States
PATENT ASSIGNEE(S): Symbicom AB, Umea, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6054296		20000425
APPLICATION INFO.:	US 1994-262220		19940620 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1988-5902	19881024
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Housel, James C.	
ASSISTANT EXAMINER:	Ryan, V.	
LEGAL REPRESENTATIVE:	Frommer, Esq., William S., Kowalski, Esq., Thomas J. Frommer Lawrence & Haug LLP	
NUMBER OF CLAIMS:	32	

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 3433
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 55 OF 110 USPATFULL
ACCESSION NUMBER: 2000:21382 USPATFULL
TITLE: Methods for producing soluble, biologically-active
disulfide-bond containing eukaryotic proteins in
bacterial cells
INVENTOR(S): Georgiou, George, Austin, TX, United States
Ostermeier, Marc, State College, PA, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6027888		20000222
APPLICATION INFO.:	US 1997-834516		19970404 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-14950	19960405 (60)
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Guzo, David	
ASSISTANT EXAMINER:	Sandals, William	
LEGAL REPRESENTATIVE:	Arnold, White & Durkee	
NUMBER OF CLAIMS:	40	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	4029	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 56 OF 110 USPATFULL
ACCESSION NUMBER: 2000:18049 USPATFULL
TITLE: Recombinant avirulent immunogenic S typhi having rpos
positive phenotype
INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
Nickerson, Cheryl A., Chesterfield, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6024961		20000215
APPLICATION INFO.:	US 1997-970789		19971114 (8)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Mosher, Mary E.		
LEGAL REPRESENTATIVE:	Howell & Haferkamp, L.C.		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	1,39		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	2837		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 57 OF 110 USPATFULL
ACCESSION NUMBER: 2000:9719 USPATFULL
TITLE: Method of limiting the survival of genetically
engineered microorganisms in their environment
INVENTOR(S): Molin, Soren, Holte, Denmark
Givskov, Michael, Copenhagen, Denmark
Kristensen, Claus Sternberg, Copenhagen N., Denmark
Bej, Asim K., Birmingham, AL, United States
Eberl, Leo, Graz, Austria

PATENT ASSIGNEE(S): GX BioSystems A/S, Copenhagen, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6017730		20000125
APPLICATION INFO.:	US 1998-70964		19980504 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-544822, filed on 18 Oct 1995, now patented, Pat. No. US 5834233 which is a continuation-in-part of Ser. No. US 1993-133665, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-863261, filed on 6 Apr 1992, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	29		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	43 Drawing Figure(s); 43 Drawing Page(s)		
LINE COUNT:	4073		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 58 OF 110 USPATFULL
ACCESSION NUMBER: 2000:4664 USPATFULL
TITLE: Hippuricase gene
INVENTOR(S): Chan, Voon Loong, 93 Elmridge Dr., Toronto Ontario M6B 1A6, Canada
Hani, Eric Kurt, 37 Greengrove Crescent, Toronto Ontario M3A 1H8, Canada

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6013501		20000111
APPLICATION INFO.:	US 1997-853552		19970509 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-485216, filed on 7 Jun 1995, now patented, Pat. No. US 5695960 which is a continuation of Ser. No. WO 1994-CA270, filed on 13 May 1994 which is a continuation-in-part of Ser. No. US 1993-61696, filed on 14 May 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Saidha, Tekchand		
LEGAL REPRESENTATIVE:	Merchant & Gould		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	1677		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 59 OF 110 USPATFULL
ACCESSION NUMBER: 1999:141596 USPATFULL
TITLE: Hippuricase gene
INVENTOR(S): Chan, Voon Loong, 93 Elmridge Drive, Toronto Ontario, Canada M6B 1A6
Hani, Eric Kurt, 37 Greengrove Crescent, Toronto Ontario, Canada M3A 1H8

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5981189		19991109
APPLICATION INFO.:	US 1998-3245		19980106 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-853552, filed on 9 May 1997 which is a division of Ser. No. US 1995-485216, filed on 7 Jun 1995, now patented, Pat. No. US 5695960		

which is a continuation of Ser. No. WO 1994-CA270,
filed on 13 May 1994 which is a continuation-in-part of
Ser. No. US 1993-61696, filed on 14 May 1993, now
abandoned

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Achutamurthy, Ponnathapura
ASSISTANT EXAMINER: Saidha, Tekchand
LEGAL REPRESENTATIVE: Merchant & Gould
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1711
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 60 OF 110 USPATFULL
ACCESSION NUMBER: 1999:136988 USPATFULL
TITLE: Immunopotentiation through covalent linkage between
immunogen and immunopotentiating molecules
INVENTOR(S): Barnes, Thomas Michael, Lane Cove, Australia
Lehrbach, Philip Ralph, Wahroonga, Australia
Russell-Jones, Gregory John, Middle Cove, Australia
PATENT ASSIGNEE(S): Bioenterprises PTY Limited, Roseville, Australia
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5976839		19991102
APPLICATION INFO.:	US 1995-461003		19950605 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1992-903121, filed on 23 Jun 1992, now abandoned which is a continuation of Ser. No. US 1987-159968, filed on 21 Feb 1987, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1987-846	19870313
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Caputa, Anthony C.	
ASSISTANT EXAMINER:	Navarro, Mark	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	18	
EXEMPLARY CLAIM:	2	
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	690	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 61 OF 110 USPATFULL
ACCESSION NUMBER: 1999:120887 USPATFULL
TITLE: Stable pura vectors and uses therefor
INVENTOR(S): Brey, Robert N., Rochester, NY, United States
Fulginiti, James P., Canandaigua, NY, United States
Anilionis, Algis, Pittsford, NY, United States
PATENT ASSIGNEE(S): Praxis Biologics, Inc., West Henrietta, NJ, United
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5961983		19991005
APPLICATION INFO.:	US 1995-448907		19950524 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-380297, filed on 30 Jan 1995 which is a continuation of Ser. No. US 1994-204903, filed on 2 Mar 1994, now abandoned which is a continuation of Ser. No. US 1991-695706, filed on 3 May 1991, now abandoned		
DOCUMENT TYPE:	Utility		

PRIMARY EXAMINER: Ketter, James
ASSISTANT EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1389
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 62 OF 110 USPATFULL
ACCESSION NUMBER: 1999:85216 USPATFULL
TITLE: Compositions comprising isolated Helicobacter pylori
CagI polynucleotides and method of preparation thereof
INVENTOR(S): Covacci, Antonello, Siena, Italy
PATENT ASSIGNEE(S): Chiron S.p.A., Italy (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5928865		19990727
APPLICATION INFO.:	US 1995-477451		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-425194, filed on 20 Apr 1995, now abandoned And Ser. No. US 1995-471491, filed on 6 Jun 1995 which is a division of Ser. No. US 256848		

	NUMBER	DATE
PRIORITY INFORMATION:	IT 1992-FI52	19920302
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Housel, James C.	
ASSISTANT EXAMINER:	Portner, Ginny Allen	
LEGAL REPRESENTATIVE:	Woodcock, Washburn, Kurtz, Mackiewicz & Norris, Harbin, Alisa A., Blackburn, Robert P.	
NUMBER OF CLAIMS:	6	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 120 Drawing Page(s)	
LINE COUNT:	6155	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 63 OF 110 USPATFULL
ACCESSION NUMBER: 1999:78568 USPATFULL
TITLE: Adhesin genes and proteins involved in trichomonas
vaginalis cytoadherence
INVENTOR(S): Alderete, John F., San Antonio, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922563		19990713
APPLICATION INFO.:	US 1995-504459		19950720 (8)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Longton, Enrique D.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	3561		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 64 OF 110 USPATFULL
ACCESSION NUMBER: 1999:75520 USPATFULL
TITLE: Stable purA vectors and uses therefor

INVENTOR(S): Brey, Robert N., Rochester, NY, United States
Fulginiti, James P., Canandaigua, NY, United States
Anilionis, Algis, Pittsford, NY, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5919663		19990706
APPLICATION INFO.:	US 1995-380297		19950130 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-204903, filed on 2 Mar 1994, now abandoned which is a continuation of Ser. No. US 1991-695706, filed on 3 May 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Ketter, James		
ASSISTANT EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	8		
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 9 Drawing Page(s)		
LINE COUNT:	1390		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 65 OF 110 USPATFULL
ACCESSION NUMBER: 1999:40230 USPATFULL
TITLE: Campylobacteri jejuni **flagellin**-escherichia coli LT-B fusion protein
INVENTOR(S): Meinersmann, Richard J., Lithonia, GA, United States
Khoury, Christian A., Philadelphia, PA, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of Agriculture, Washington, DC, United States
(U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5888810		19990330
APPLICATION INFO.:	US 1997-784218		19970116 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1993-150305, filed on 12 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Caputa, Anthony C.		
LEGAL REPRESENTATIVE:	Silverstein, M. Howard, Fado, John, Graeter, Janelle S.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	805		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 66 OF 110 USPATFULL
ACCESSION NUMBER: 1999:27448 USPATFULL
TITLE: Methods and compositions for the preparation of recombinant Trichomonas vaginalis proteins and peptides
INVENTOR(S): Alderete, John F., San Antonio, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5876985		19990302
APPLICATION INFO.:	US 1994-259966		19940614 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-692382, filed on 25 Apr 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Patterson, Jr., Charles L.		

ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 2363
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 67 OF 110 USPATFULL
ACCESSION NUMBER: 1999:24309 USPATFULL
TITLE: Immunopotentiating complexes comprising TraT proteins
INVENTOR(S): Barnes, Thomas Michael, Lane Cove, Australia
Lehrbach, Philip Ralph, Wahroonga, Australia
Russell-Jones, Gregory John, Middle Cove, Australia
PATENT ASSIGNEE(S): Bioenterprises Pty Limited, East Roseville, Australia
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874083		19990223
APPLICATION INFO.:	US 1995-461324		19950605 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-903121, filed on 23 Jun 1992, now abandoned which is a continuation of Ser. No. US 1987-159968, filed on 21 Dec 1987, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1986-5559	19860421
	AU 1987-846	19870313
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Sidberry, Hazel F.	
LEGAL REPRESENTATIVE:	Foley & Lardner	
NUMBER OF CLAIMS:	16	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	822	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 68 OF 110 USPATFULL
ACCESSION NUMBER: 1999:1223 USPATFULL
TITLE: Avirulent microbes and uses therefor
INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
Kelly, Sandra M., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5855880		19990105
APPLICATION INFO.:	US 1996-596732		19960205 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1994-209542, filed on 10 Mar 1994 which is a continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. US -200934 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072, filed on 7 Oct 1987, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Scheiner, Laurie		
LEGAL REPRESENTATIVE:	Howell & Haferkamp, L.C.		

NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 3409
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 69 OF 110 USPATFULL
ACCESSION NUMBER: 1999:1222 USPATFULL
TITLE: Avirulent microbes and uses therefor
INVENTOR(S): Curtiss III, Roy, St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5855879		19990105
APPLICATION INFO.:	US 1994-209542		19940310 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1991-785748, filed on 7 Nov 1991, now patented, Pat. No. US 5294441 which is a continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. US -612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072, filed on 7 Oct 1987, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Scheiner, Laurie		
LEGAL REPRESENTATIVE:	Howell & Haferkamp, L.C.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	3399		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 70 OF 110 USPATFULL
ACCESSION NUMBER: 1998:162259 USPATFULL
TITLE: Decorin binding protein compositions and methods of use
INVENTOR(S): Guo, Betty, Houston, TX, United States
Hook, Magnus, Houston, TX, United States
PATENT ASSIGNEE(S): The Texas A & M University System, College Station, TX,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5853987		19981229
APPLICATION INFO.:	US 1996-589711		19960122 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Horlick, Kenneth R.		
ASSISTANT EXAMINER:	Tung, Joyce		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	68		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	4684		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 71 OF 110 USPATFULL
ACCESSION NUMBER: 1998:156927 USPATFULL

TITLE: Binding domains from Plasmodium vivax and Plasmodium falciparum erythrocyte binding proteins

INVENTOR(S): Sim, Kim Lee, Gaithersburg, MD, United States
Chitnis, Chetan, Washington, DC, United States
Miller, Louis H., Bethesda, MD, United States
Peterson, David S., Rockville, MD, United States
Su, Xin-Zhuan, Rockville, MD, United States
Wellems, Thomas E., Rockville, MD, United States

PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5849306		19981215
APPLICATION INFO.:	US 1995-568459		19951207 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-119677, filed on 10 Sep 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Cunningham, Thomas M.		
LEGAL REPRESENTATIVE:	Knobbe, Martens, Olson & Bear, LLP		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	2490		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 72 OF 110 USPATFULL

ACCESSION NUMBER: 1998:150449 USPATFULL

TITLE: **Salmonella vaccines**

INVENTOR(S): Miller, Samuel I., Seattle, WA, United States
Mekalanos, John J., Cambridge, MA, United States

PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MS, United States (U.S. corporation)
President and Fellows of Harvard College, Cambridge, MS, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5843426		19981201
APPLICATION INFO.:	US 1995-565861		19951201 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-271354, filed on 6 Jul 1994, now patented, Pat. No. US 5695983 which is a continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537 which is a continuation-in-part of Ser. No. US 1990-629602, filed on 18 Dec 1990, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	LeGuvader, John L.		
ASSISTANT EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	4505		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 73 OF 110 USPATFULL

ACCESSION NUMBER: 1998:147236 USPATFULL

TITLE: Antibodies directed to pagC peptides for the detection of **salmonellae**

INVENTOR(S): Schubert, Peter, Darmstadt, Germany, Federal Republic of
Neumann, Siegfried, Seeheim-Jugenheim, Germany, Federal

Republic of
 Burger, Christa, Darmstadt, Germany, Federal Republic
 of
 Linxweiler, Winfried, GroB-Umstadt, Germany, Federal
 Republic of
 Bubert, Andreas, Gerbrunn, Germany, Federal Republic of
 Goebel, Werner, Veitschochheim, Germany, Federal
 Republic of
 Mollenkopf, Hans-Joachim, Randersacker, Germany,
 Federal Republic of
 PATENT ASSIGNEE(S): Merck Patent Gesellschaft mit Beschränkter Haftung,
 Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5840513		19981124
APPLICATION INFO.:	US 1995-372197		19950113 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1994-4400990	19940114
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Caputa, Anthony C.	
LEGAL REPRESENTATIVE:	Millen, White, Zelano & Branigan, P.C.	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	673	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 74 OF 110 USPATFULL
 ACCESSION NUMBER: 1998:144221 USPATFULL
 TITLE: Campylobacter jejuni **flagellin**/Escherichia
 coli LT-B fusion protein
 INVENTOR(S): Meinersmann, Richard J., Lithonia, GA, United States
 Khoury, Christian A., Philadelphia, PA, United States
 PATENT ASSIGNEE(S): The United States of America as represented by the
 Secretary of Agriculture, Washington, DC, United States
 (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5837825		19981117
APPLICATION INFO.:	US 1997-829026		19970331 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-150305, filed on 12 Nov 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Caputa, Anthony C.		
LEGAL REPRESENTATIVE:	Silverstein, M. Howard, Fado, John, Graeter, Janelle S.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	3 Drawing Figure(s); 3 Drawing Page(s)		
LINE COUNT:	803		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 75 OF 110 USPATFULL
 ACCESSION NUMBER: 1998:143904 USPATFULL
 TITLE: Directed evolution of novel binding proteins
 INVENTOR(S): Ladner, Robert Charles, Ijamsville, MD, United States
 Gutterman, Sonia Kosow, Belmont, MA, United States
 Roberts, Bruce Lindsay, Milford, MA, United States
 Markland, William, Milford, MA, United States
 Ley, Arthur Charles, Newton, MA, United States
 Kent, Rachel Baribault, Boxborough, MA, United States

PATENT ASSIGNEE(S): Dyax, Corp., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5837500		19981117
APPLICATION INFO.:	US 1995-415922		19950403 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-9319, filed on 26 Jan 1993, now patented, Pat. No. US 5403484 which is a division of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Ulm, John		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	43		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	15973		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 76 OF 110 USPATFULL
ACCESSION NUMBER: 1998:138676 USPATFULL
TITLE: Method of limiting the survival of genetically engineered microorganisms in their environment
INVENTOR(S): Molin, Soren, Holte, Denmark
Givskov, Michael, Copenhagen, Denmark
Kristensen, Claus Sternberg, Copenhagen N., Denmark
Bej, Asim K., Birmingham, AL, United States
Eberl, Leo, Graz, Austria
PATENT ASSIGNEE(S): GX BioSystems A/S, Copenhagen, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5834233		19981110
APPLICATION INFO.:	US 1995-544822		19951018 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-135665, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-863261, filed on 6 Nov 1992, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Ketter, James		
ASSISTANT EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	125		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	43 Drawing Figure(s); 43 Drawing Page(s)		
LINE COUNT:	4488		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 77 OF 110 USPATFULL
ACCESSION NUMBER: 1998:134627 USPATFULL
TITLE: Yeast-based delivery vehicles
INVENTOR(S): Duke, Richard C., Denver, CO, United States
Franzusoff, Alex, Boulder, CO, United States
Bellgrau, Donald, Denver, CO, United States
PATENT ASSIGNEE(S): University Technology Corporation, Boulder, CO, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5830463 19981103
 APPLICATION INFO.: US 1994-340185 19941115 (8)
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-88322, filed
 on 7 Jul 1993, now patented, Pat. No. US 5413914
 DOCUMENT TYPE: Utility
 PRIMARY EXAMINER: Chambers, Jasemine C.
 ASSISTANT EXAMINER: Hauda, Karen M.
 LEGAL REPRESENTATIVE: Sheridan Ross P.C.
 NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1,12
 NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
 LINE COUNT: 1929
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 78 OF 110 USPATFULL
 ACCESSION NUMBER: 1998:115424 USPATFULL
 TITLE: **Vaccines** containing bacteria attenuated by
mutations in two genes of the aromatic amino
 acid biosynthetic pathway
 INVENTOR(S): Dougan, Gordon, Beckenham, United Kingdom
 Chatfield, Steven Neville, Beckenham, United Kingdom
 Hormaeche, Carlos Estenio, Cambridge, United Kingdom
 PATENT ASSIGNEE(S): Glaxo Wellcome, Inc., Research Triangle Park, NC,
 United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5811105		19980922
APPLICATION INFO.:	US 4492978		19950524 (8)
DISCLAIMER DATE:	20180623		
RELATED APPLN. INFO.:	Division of Ser. No. 135436, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. 979460, filed on 20 Nov 1992, now abandoned which is a continuation of Ser. No. 857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. 642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. 399539, filed on 22 Aug 1989, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 8730037	19871223
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Minnifield, Nita	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye, P.C.	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	628	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 79 OF 110 USPATFULL
 ACCESSION NUMBER: 1998:111773 USPATFULL
 TITLE: OspE, OspF, and S1 polypeptides in *Borrelia burgdorferi*
 INVENTOR(S): Flavell, Richard A., Killingworth, CT, United States
 Fikrig, Erol, Guilford, CT, United States
 Lam, Tuan T., San Jose, CA, United States
 Kantor, Fred S., Orange, CT, United States
 Barthold, Stephen W., Madison, CT, United States
 PATENT ASSIGNEE(S): Yale University, New Haven, CT, United States (U.S.
 corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5807685 19980915
 APPLICATION INFO.: US 1997-909119 19970811 (8)
 RELATED APPLN. INFO.: Division of Ser. No. US 1993-118469, filed on 8 Sep 1993, now patented, Pat. No. US 5656451 And a continuation-in-part of Ser. No. US 1993-99757, filed on 30 Jul 1993, now abandoned
 DOCUMENT TYPE: Utility
 PRIMARY EXAMINER: Carlson, Karen
 LEGAL REPRESENTATIVE: Fish & Neave, Haley, Jr., James F., Gunnison, Jane T.
 NUMBER OF CLAIMS: 11
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 17 Drawing Figure(s); 16 Drawing Page(s)
 LINE COUNT: 2343
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 80 OF 110 USPATFULL
 ACCESSION NUMBER: 1998:72257 USPATFULL
 TITLE: **Vaccines** containing **salmonella** bacteria attenuated by **mutations** in two genes of the aromatic amino acid biosynthetic pathway
 INVENTOR(S): Dougan, Gordon, Beckenham, United Kingdom
 Chatfield, Steven Neville, Beckenham, United Kingdom
 Hormaeche, Carlos Estenio, Cambridge, United Kingdom
 PATENT ASSIGNEE(S): Glaxo Wellcome, Inc., Research Triangle Park, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770214		19980623
APPLICATION INFO.:	US 1995-484314		19950607 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1993-135436, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-979460, filed on 20 Nov 1992, now abandoned which is a continuation of Ser. No. US 1992-857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. US 1991-642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. US 1989-399539, filed on 22 Aug 1989, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1987-30037	19871223
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Minnifield, Nita	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye, P.C.,	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	599	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 81 OF 110 USPATFULL
 ACCESSION NUMBER: 97:123350 USPATFULL
 TITLE: Nucleic acid encoding helicobacter pylori enolase
 INVENTOR(S): Thompson, Stuart A., Joelton, TN, United States
 Blaser, Martin J., Nashville, TN, United States
 PATENT ASSIGNEE(S): Vanderbilt University, Nashville, TN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5703219		19971230
APPLICATION INFO.:	US 1995-446920		19950522 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-215928, filed on 21 Mar 1994, now patented, Pat. No. US 5434253, issued on 18 Jul 1995

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Wax, Robert A.

ASSISTANT EXAMINER: Lau, Kawai

LEGAL REPRESENTATIVE: Needle & Rosenberg, PC

NUMBER OF CLAIMS: 8

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 1485

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 82 OF 110 USPATFULL

ACCESSION NUMBER: 97:115147 USPATFULL

TITLE: **Salmonella vaccines**

INVENTOR(S): Miller, Samuel I., Brookline, MA, United States
Mekalanos, John J., Cambridge, MA, United States

PATENT ASSIGNEE(S): The General Hospital Corporation, Boston, MA, United States (U.S. corporation)
President and Fellows of Harvard College, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5695983		19971209
APPLICATION INFO.:	US 1994-271354		19940706 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537 which is a continuation-in-part of Ser. No. US 1990-629602, filed on 18 Dec 1990, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Ketter, James		
ASSISTANT EXAMINER:	Brusca, John S.		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	5		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	25 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	3780		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 83 OF 110 USPATFULL

ACCESSION NUMBER: 97:115125 USPATFULL

TITLE: Hippuricase gene

INVENTOR(S): Chan, Voon Loong, 93 Elmridge Dr., Toronto, Ontario, Canada M6B 1A6
Hani, Eric Kurt, 37 Greengrove Crescent, Toronto, Ontario, Canada M3A 1H8

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5695960		19971209
APPLICATION INFO.:	US 1995-485216		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-61696, filed on 14 May 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Hendricks, Keith D.		
ASSISTANT EXAMINER:	Saidha, Tekchand		
LEGAL REPRESENTATIVE:	Bereskin & Parr		
NUMBER OF CLAIMS:	7		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 6 Drawing Page(s)		
LINE COUNT:	1609		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 84 OF 110 USPATFULL
 ACCESSION NUMBER: 97:78182 USPATFULL
 TITLE: Invasive microorganisms
 INVENTOR(S): Falkow, Stanley, Portola Valley, CA, United States
 Isberg, Ralph, Brookline, MA, United States
 Miller, Virginia, Van Nuys, CA, United States
 St. Geme, III, Joseph W., Redwood City, CA, United States
 Lee, Catherine A., Newton, MA, United States
 PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Jr.
 University, Palo Alto, CA, United States (U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5662908		19970902
APPLICATION INFO.:	US 1994-216086		19940321 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-844470, filed on 2 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-644826, filed on 23 Jan 1991, now patented, Pat. No. US 5239066 which is a continuation-in-part of Ser. No. US 1990-559904, filed on 30 Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989, now patented, Pat. No. US 5310654 which is a continuation-in-part of Ser. No. US 1985-761222, filed on 31 Jul 1985, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Mosher, Mary E.		
LEGAL REPRESENTATIVE:	Flehr, Hohbach, Test, Albritton & Herbert, Trecartin, Richard F., Silva, Robin M.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	2673		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 85 OF 110 USPATFULL
 ACCESSION NUMBER: 97:70928 USPATFULL
 TITLE: Recombinant avirulent **salmonella**
 antifertility **vaccines**
 INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
 Tung, Kenneth S. K., Charlottesville, VA, United States
 PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5656488		19970812
APPLICATION INFO.:	US 1994-222182		19940401 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-791347, filed on 18 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-615720, filed on 21 Nov 1990, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Cunningham, Thomas M.		
LEGAL REPRESENTATIVE:	Howell & Haferkamp, L.C.		
NUMBER OF CLAIMS:	50		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 20 Drawing Page(s)		
LINE COUNT:	3112		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 86 OF 110 USPATFULL
 ACCESSION NUMBER: 97:70893 USPATFULL
 TITLE: OspE, OspF, and S1 polypeptides in borrelia burgdorferi
 INVENTOR(S): Flavell, Richard A., Killingworth, CT, United States
 Fikrig, Erol, Guilford, CT, United States
 Lam, Tuan T., San Jose, CA, United States
 Kantor, Fred S., Orange, CT, United States
 Barthold, Stephen W., Madison, CT, United States
 PATENT ASSIGNEE(S): Yale University, New Haven, CT, United States (U.S.
 corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5656451		19970812
APPLICATION INFO.:	US 1993-118469		19930908 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-99757, filed on 30 Jul 1993, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Carlson, K. Cochrane		
LEGAL REPRESENTATIVE:	Fish & Neave, Haley, Jr. Esq., James F., Gunnison, Esq., Jane T.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	2447		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 87 OF 110 USPATFULL
 ACCESSION NUMBER: 97:59078 USPATFULL
 TITLE: Peptide and protein fusions to thioredoxin,
 thioredoxin-like molecules, and modified
 thioredoxin-like molecules
 INVENTOR(S): McCoy, John, Reading, MA, United States
 DiBlasio-Smith, Elizabeth, Tyngsboro, MA, United States
 Grant, Kathleen, Salem, MA, United States
 LaVallie, Edward R., Tewksbury, MA, United States
 PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5646016		19970708
APPLICATION INFO.:	US 1993-165301		19931210 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1992-921848, filed on 28 Jul 1992, now patented, Pat. No. US 5292646, issued on 8 Mar 1994 which is a continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991, now patented, Pat. No. US 5270181, issued on 14 Dec 1993 which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Hendricks, Keith D.		
ASSISTANT EXAMINER:	Bugaisky, G. E.		
LEGAL REPRESENTATIVE:	Meinert, M. C.		
NUMBER OF CLAIMS:	41		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	13 Drawing Figure(s); 13 Drawing Page(s)		
LINE COUNT:	2397		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 88 OF 110 USPATFULL
 ACCESSION NUMBER: 97:47098 USPATFULL
 TITLE: Method of detecting ligand interactions

INVENTOR(S): McCoy, John M., Reading, MA, United States
Lu, Zhijian, Arlington, MA, United States
PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5635182		19970603
APPLICATION INFO.:	US 1994-260582		19940616 (8)
DISCLAIMER DATE:	20101214		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Bugalsky, Gabriele E.		
LEGAL REPRESENTATIVE:	Meinert, M. C.		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	1935		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 89 OF 110 USPATFULL
ACCESSION NUMBER: 97:1542 USPATFULL
TITLE: Expression of specific immunogens using viral antigens
INVENTOR(S): Hung, Paul P., Bryn Mawr, PA, United States
Lee, Shaw-Guang L., Villanova, PA, United States
Kalyan, Narender K., Wayne, PA, United States
PATENT ASSIGNEE(S): American Home Products Corporation, Madison, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5591823		19970107
APPLICATION INFO.:	US 1993-169813		19931217 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-805105, filed on 11 Dec 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Smith, Lynette F.		
LEGAL REPRESENTATIVE:	Jackson, Richard K.		
NUMBER OF CLAIMS:	9		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	1122		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 90 OF 110 USPATFULL
ACCESSION NUMBER: 96:116113 USPATFULL
TITLE: **Flagella-less borrelia**
INVENTOR(S): Barbour, Alan G., San Antonio, TX, United States
Bundoc, Virgilio G., Newbury Park, CA, United States
Sadziene, Adriadna, San Antonio, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5585102		19961217
APPLICATION INFO.:	US 1993-124290		19930920 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-641143, filed on 11 Jan 1991		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 17 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 1434

L3 ANSWER 91 OF 110 USPATFULL
ACCESSION NUMBER: 96:101466 USPATFULL
TITLE: Directed evolution of novel binding proteins
INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States
Guterman, Sonia K., Belmont, MA, United States
Roberts, Bruce L., Milford, MA, United States
Markland, William, Milford, MA, United States
Ley, Arthur C., Newton, MA, United States
Kent, Rachel B., Boxborough, MA, United States
PATENT ASSIGNEE(S): Protein Engineering Corporation, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5571698		19961105
APPLICATION INFO.:	US 1993-57667		19930618 (8)
DISCLAIMER DATE:	20100629		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Ulm, John		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	83		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		
LINE COUNT:	15323		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 92 OF 110 USPATFULL
ACCESSION NUMBER: 96:75121 USPATFULL
TITLE: Recombinant hybrid porin epitopes
INVENTOR(S): Goldstein, Neil I., West Orange, NJ, United States
Tackney, Charles T., Brooklyn, NY, United States
PATENT ASSIGNEE(S): Imclone Systems Incorporated, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5547670		19960820
APPLICATION INFO.:	US 1993-124369		19930920 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1991-669528, filed on 14 Mar 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Nucker, Christine M.		
ASSISTANT EXAMINER:	Scheiner, Laurie		
LEGAL REPRESENTATIVE:	Feit, Irving N., Gallagher, Thomas C.		
NUMBER OF CLAIMS:	4		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	985		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 93 OF 110 USPATFULL
ACCESSION NUMBER: 96:45945 USPATFULL
TITLE: Transformed cell lines producing human monoclonal antibodies specific for Pseudomonas aeruginosa serotypes

INVENTOR(S): Fukuda, Tamotsu, Mobara, Japan
 Ono, Yasushi, Shiki, Japan
 Shigeta, Shiro, Fukushima, Japan
 Kuriowa, Yasuyuki, Mobara, Japan
 Ooka, Hisayoshi, Fukushima, Japan
 PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5521085		19960528
APPLICATION INFO.:	US 1993-41244		19930401 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1989-431097, filed on 3 Nov 1989, now abandoned Ser. No. Ser. No. US 1990-602235, filed on 8 Nov 1990, now abandoned And Ser. No. US 1992-879118, filed on 5 May 1992, now abandoned which is a continuation of Ser. No. US 1988-251217, filed on 8 Aug 1988, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1986-296594	19861215
	WO 1987-JP976	19871214
	JP 1988-281460	19881109
	JP 1988-281461	19881109
	JP 1989-66326	19890320
	JP 1989-66327	19890320
	JP 1989-66328	19890320
	JP 1989-66329	19890320
	JP 1989-116048	19890511
	WO 1990-JP367	19900319
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Lacey, David L.	
ASSISTANT EXAMINER:	Loring, Susan A.	
LEGAL REPRESENTATIVE:	Nixon & Vanderhye	
NUMBER OF CLAIMS:	5	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	3963	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 94 OF 110 USPATFULL
 ACCESSION NUMBER: 95:103251 USPATFULL
 TITLE: Avirulent microbes and uses therefor
 INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
 PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5468485		19951121
APPLICATION INFO.:	US 1993-20259		19930218 (8)
DISCLAIMER DATE:	20110315		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1989-332285, filed on 31 Mar 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Rogers, Howell & Haferkamp		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)		

LINE COUNT: 2597
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 95 OF 110 USPATFULL
ACCESSION NUMBER: 95:66995 USPATFULL
TITLE: **Flagella-less borrelia**
INVENTOR(S): Barbour, Alan G., San Antonio, TX, United States
Bundoc, Virgilio, San Antonio, TX, United States
PATENT ASSIGNEE(S): University of Texas System, Austin, TX, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5436000		19950725
APPLICATION INFO.:	US 1991-641143		19910111 (7)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Sidberry, Hazel F.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Figure(s); 14 Drawing Page(s)		
LINE COUNT:	1300		

L3 ANSWER 96 OF 110 USPATFULL
ACCESSION NUMBER: 95:29292 USPATFULL
TITLE: **Viruses expressing chimeric binding proteins**
INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States
Guterman, Sonia K., Belmont, MA, United States
Roberts, Bruce L., Milford, MA, United States
Markland, William, Milford, MA, United States
Ley, Arthur C., Newton, MA, United States
Kent, Rachel B., Boxborough, MA, United States
PATENT ASSIGNEE(S): Protein Engineering Corporation, Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5403484		19950404
APPLICATION INFO.:	US 1993-9319		19930126 (8)
RELATED APPLN. INFO.:	Division of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1989-3731	19890901
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Hill, Jr., Robert J.	
ASSISTANT EXAMINER:	Ulm, John D.	
LEGAL REPRESENTATIVE:	Cooper, Iver P.	
NUMBER OF CLAIMS:	49	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)	
LINE COUNT:	14368	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 97 OF 110 USPATFULL
ACCESSION NUMBER: 95:13604 USPATFULL
TITLE: **Avirulent microbes and uses therefor**
INVENTOR(S): Gurtiss, III, Roy, St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5389368		19950214
APPLICATION INFO.:	US 1992-965607		19921022 (7)
DISCLAIMER DATE:	20110315		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Low, Christopher S. F.		
LEGAL REPRESENTATIVE:	Rogers, Howell & Haferkamp		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 8 Drawing Page(s)		
LINE COUNT:	2106		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 98 OF 110 USPATFULL
ACCESSION NUMBER: 95:11759 USPATFULL
TITLE: Avirulent microbes and uses therefor:
Salmonella typhi
INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
Kelly, Sandra M., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5387744		19950207
APPLICATION INFO.:	US 1993-88394		19930707 (8)
DISCLAIMER DATE:	20110315		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1992-975892, filed on 13 Nov 1992, now abandoned which is a continuation of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. US -612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072, filed on 7 Oct 1987, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Low, Christopher S. F.		
LEGAL REPRESENTATIVE:	Rogers, Howell & Haferkamp		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	2718		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 99 OF 110 USPATFULL
ACCESSION NUMBER: 94:90955 USPATFULL
TITLE: Membrane expression of heterologous genes
INVENTOR(S): Niesel, David W., League City, TX, United States
Moncrief, J. Scott, Galveston, TX, United States
Phillips, Linda H., Galveston, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX,
United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5356797 19941018
 APPLICATION INFO.: US 1991-792525 19911115 (7)
 DOCUMENT TYPE: Utility
 PRIMARY EXAMINER: Schwartz, Richard A.
 ASSISTANT EXAMINER: Guzo, David
 LEGAL REPRESENTATIVE: Arnold, White & Durkee
 NUMBER OF CLAIMS: 24
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 12 Drawing Figure(s); 11 Drawing Page(s)
 LINE COUNT: 1390
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 100 OF 110 USPATFULL
 ACCESSION NUMBER: 94:84349 USPATFULL
 TITLE: DNAs encoding Treponema pallidum antigens
 INVENTOR(S): Norgard, Michael V., Plano, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System,
 Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5350842		19940927
APPLICATION INFO.:	US 1992-940245		19920831 (7)
DISCLAIMER DATE:	20060919		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1986-913724, filed on 30 Sep 1986, now patented, Pat. No. US 4868118 And a continuation-in-part of Ser. No. US 1988-235351, filed on 23 Aug 1988, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Schwartz, Richard A.		
ASSISTANT EXAMINER:	LeGuyader, J.		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s);	8 Drawing Page(s)	
LINE COUNT:	1871		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 101 OF 110 USPATFULL
 ACCESSION NUMBER: 94:82162 USPATFULL
 TITLE: Expression of proteins on bacterial surface
 INVENTOR(S): Georgiou, George, 11501 Juniper Ridge Dr., Austin, TX,
 United States 78759
 Francisco, Joseph A., Austin, TX, United States
 Earhart, Charles F., Austin, TX, United States
 PATENT ASSIGNEE(S): Georgiou, George, Austin, TX, United States (U.S. individual)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5348867		19940920
APPLICATION INFO.:	US 1991-794731		19911115 (7)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Hill, Jr., Robert J.		
ASSISTANT EXAMINER:	Allen, Marianne Porta		
LEGAL REPRESENTATIVE:	Arnold, White & Durkee		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1,2		
NUMBER OF DRAWINGS:	11 Drawing Figure(s);	10 Drawing Page(s)	
LINE COUNT:	1400		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 102 OF 110 USPATFULL

ACCESSION NUMBER: 94:71123 USPATFULL
TITLE: Yersinia INV nucleic acids
INVENTOR(S): Isberg, Ralph R., Brookline, MA, United States
Miller, Virginia, Los Angeles, CA, United States
Falkow, Stanley, Portola Valley, CA, United States
PATENT ASSIGNEE(S): The Board of Trustees of Leland Stanford Jr.
University, Stanford, CA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5338842		19940816
APPLICATION INFO.:	US 1992-890317		19920522 (7)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1990-559904, filed on 30 Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989 which is a continuation-in-part of Ser. No. US 1985-761222, filed on 31 Jul 1985, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 1990-US2131	19900418
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Schwartz, Richard A.	
ASSISTANT EXAMINER:	Mosher, Mary E.	
LEGAL REPRESENTATIVE:	Flehr, Hohbach, Test, Albritton & Herbert	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1821	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L3 ANSWER 103 OF 110 USPATFULL
ACCESSION NUMBER: 94:35369 USPATFULL
TITLE: Oligosaccharide conjugate vaccines
INVENTOR(S): Porro, Massimo, Siena, Italy
PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5306492		19940426
APPLICATION INFO.:	US 1992-921678		19920730 (7)
RELATED APPLN. INFO.:	Division of Ser. No. US 1990-590649, filed on 28 Sep 1990, now patented, Pat. No. US 5153312		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Kim, Kay K.		
LEGAL REPRESENTATIVE:	Dow, Kenneth J.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1422		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 104 OF 110 USPATFULL
ACCESSION NUMBER: 94:22076 USPATFULL
TITLE: Avirulent microbes and uses therefor:
salmonella typhi
INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5294441		19940315

APPLICATION INFO.: US 1991-785748 19911107 (7)
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. 612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072, filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility
 PRIMARY EXAMINER: Low, Christopher S. F.
 LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp
 NUMBER OF CLAIMS: 12
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
 LINE COUNT: 3370
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 105 OF 110 USPATFULL
 ACCESSION NUMBER: 94:20081 USPATFULL
 TITLE: Peptide and protein fusions to thioredoxin and thioredoxin-like molecules
 INVENTOR(S): McCoy, John, Reading, MA, United States
 LaVallie, Edward R., Tewksbury, MA, United States
 PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5292646		19940308
APPLICATION INFO.:	US 1992-921848		19920728 (7)
DISCLAIMER DATE:	20101214		
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991 which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Bugaisky, G. E.		
LEGAL REPRESENTATIVE:	Meinert, Maureen C., DesRosier, Thomas J., Eisen, Bruce M.		
NUMBER OF CLAIMS:	24		
EXEMPLARY CLAIM:	21		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 12 Drawing Page(s)		
LINE COUNT:	1565		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

L3 ANSWER 106 OF 110 USPATFULL
 ACCESSION NUMBER: 93:78691 USPATFULL
 TITLE: Virulence associated proteins in Borrelia burgdorferi (BB)
 INVENTOR(S): Norris, Steven J., Houston, TX, United States
 Barbour, Alan G., San Antonio, TX, United States
 PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5246844		19930921
APPLICATION INFO.:	US 1991-781355		19911022 (7)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Nucker, Christine M.		
ASSISTANT EXAMINER:	Dubrule, Chris		

LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 14 Drawing Page(s)
LINE COUNT: 1705
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 107 OF 110 USPATFULL
ACCESSION NUMBER: 93:69992 USPATFULL
TITLE: Yersinia ail nucleic acids
INVENTOR(S): St. Geme, III: Joseph W., Redwood City, CA, United States
Falkow, Stanley, Portola Valley, CA, United States
Isberg, Ralph, Brookline, MA, United States
Miller, Virginia, Van Nuys, CA, United States
PATENT ASSIGNEE(S): The Board of Trustees of Leland Stanford Jr.
University, Stanford, CA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5239066		19930824
APPLICATION INFO.:	US 1991-644826		19910123 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-559904, filed on 30 Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989 which is a continuation-in-part of Ser. No. US 1985-761222, filed on 31 Jul 1985, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Schwartz, Richard A.		
ASSISTANT EXAMINER:	Mosher, Mary E.		
LEGAL REPRESENTATIVE:	Flehr, Hohbach, Test, Albritton & Herbert		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2096		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 108 OF 110 USPATFULL
ACCESSION NUMBER: 93:52487 USPATFULL
TITLE: Directed evolution of novel binding proteins
INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States
Guterman, Sonia K., Belmont, MA, United States
Roberts, Bruce L., Milford, MA, United States
Markland, William, Milford, MA, United States
Ley, Arthur C., Newton, MA, United States
Kent, Rachel B., Boxborough, MA, United States
PATENT ASSIGNEE(S): Protein Engineering Corp., Cambridge, MA, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5223409		19930629
APPLICATION INFO.:	US 1991-664989		19910301 (7)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned And a continuation-in-part of Ser. No. US 1988-240160, filed on 2 Sep 1988, now abandoned		
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Hill, Jr., Robert J.		
ASSISTANT EXAMINER:	Ulm, John D.		
LEGAL REPRESENTATIVE:	Cooper, Iver P.		
NUMBER OF CLAIMS:	66		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)		

LINE COUNT: 15410
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 109 OF 110 USPATFULL
ACCESSION NUMBER: 92:82892 USPATFULL
TITLE: Oligosaccharide conjugate vaccines
INVENTOR(S): Porro, Massimo, Siena, Italy
PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5153312		19921006
APPLICATION INFO.:	US 1990-590649		19900928 (7)
DOCUMENT TYPE:	Utility		
PRIMARY EXAMINER:	Nucker, Christine M.		
ASSISTANT EXAMINER:	Kim, Kay		
LEGAL REPRESENTATIVE:	Dow, Kenneth J.		
NUMBER OF CLAIMS:	27		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	1491		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 110 OF 110 USPATFULL
ACCESSION NUMBER: 72:29908 USPATFULL
TITLE: PROCESS FOR OBTAINING AND PRESERVING STABLE BACTERIAL
VARIANTS
INVENTOR(S): Thuillier, Yvonne, Paris, France
PATENT ASSIGNEE(S): Albert Rolland S.A., Paris, France

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3669846		19720613
APPLICATION INFO.:	US 1970-21765		19700323 (5)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1969-15672	19690325
DOCUMENT TYPE:	Utility	
PRIMARY EXAMINER:	Monacell, A. Louis	
ASSISTANT EXAMINER:	Hensley, Max D.	
LEGAL REPRESENTATIVE:	Bacon & Thomas	
NUMBER OF CLAIMS:	10	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 11 Drawing Page(s)	
LINE COUNT:	914	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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AN 1988:417215 BIOSIS
DN BA86:79827
TI INTACT MOTILITY AS A **SALMONELLA-TYPHI** INVASION-RELATED FACTOR.
AU LIU S-L; EZAKI T; MIURA H; MATSUI K; YABUUCHI E
CS DEP. MICROBIOLOGY, GIFU UNIV. SCH. MED., 40 TSUKASA-MACHI, GIFU 500, JAPAN.
SO INFECT IMMUN, (1988) 56 (8), 1967-1973.
CODEN: INFIBR. ISSN: 0019-9567.
FS BA; OLD
LA English
AB Invasiveness of **Salmonella typhi** was investigated. At first, we introduced Tn5 into the chromosome of a wild-type *S. typhi* strain, GIFU 10007, and screened the independent Tn5 insertion mutants for noninvasive (Inv-) strains. During the first half of this work, we obtained 4 Inv- strains from 1,338 independent Tn5 mutants. The four were either **nonflagellate** (Fla-), nonmotile (Mot-), or nonchemotactic (Che-). We then isolated more Fla-, Mot-, or Che- mutants and examined the invasiveness of these mutants. Sixty-three spontaneous or Tn5 insertion motility mutants, i.e., Fla-, Mot-, or Che-, were independently isolated from the wild-type strain GIFU 10007; all of them were noninvasive. Motile revertants isolated from some of these mutants showed the same invasiveness as the parent strain. P22-mediated transductional crosses were carried out between some of the motility mutants (as the recipients) and the Fla- reference strains of *S. typhimurium* with known deletion sites on the genome (as the donors). The mutational sites of the *S. typhi* mutants were assigned almost evenly to the three flagellar gene regions (regions I, II, and III) of *S. typhimurium*. The invasiveness of the motile recombinants obtained from the transduction assays was examined. The restoration of intact motility resulted in the restoration of invasiveness. Thus, we conclude that intact motility is an invasion-related factor of *S. typhi*. The relationship of Vi antigen to the invasiveness of *S. typhi* was also studied. Vi-negative mutants with intact motility remained invasive, whereas all 63 Inv- spontaneous or Tn5 mutants were Vi positive. Therefore, Vi antigen was not related to the invasiveness of *S. typhi*.